

Session Program

26-31 May 2024



**Canadian Association
of Physicists**

**Association canadienne
des physiciens et physiciennes**

2024 CAP Congress / Congrès de l'ACP 2024

***(DTP) T2-2 Theoretical and Mathematical
Physics | Physique théorique et
mathématique (DPT)***

Western University

Tuesday 28 May

14:15

(DTP) T2-2 Theoretical and Mathematical Physics | Physique théorique et mathématique (DPT)

Session | **Location:** Social Science Centre, Western U., SSC Rm 2028 (cap. 135) | **Convener:** Prof. Hari Kunduri

14:15–14:45

Physics-inspired algorithms for optimization, learning, and counting

Speaker

Stefanos Kourtis

14:45–15:00

(G) Emergence of Structure in Brain Dynamics and Adventures in Phase Space

Speaker

Faheem Mosam

15:00–15:15

Thin Wall False Monopoles

Speaker

Prof. Manu Paranjape

15:15–15:30

(G) Kaluza-Klein $SO(4)$ -Monopoles on Exotic 7-Spheres and Physical Effects of Exotic Smooth Structures

Speaker

Ulrich Chiapi Ngamako

15:30–15:45

(G*) General covariance and dynamics with a Gauss law

Speaker

Hassan Mehmood

15:45